

EXPRESSION OF INTEREST (including Pre-Qualification Requirements)

Supply of Dual Redundant Crane Hoist System

Reference: **Project #075300**

BIDS Categories: 4860

Issue Date: 07/12/2024

Closing Date: 07/26/2024

Overview:

- ExxonMobil Canada Properties, by its managing partner ExxonMobil Canada Ltd. (EMCP) is in the process of pre-qualifying companies who can supply hydraulic dual redundant crane hoist system for their offshore Newfoundland and Labrador requirements.
- Supplier shall provide all management, personnel, processes, materials, tools, equipment, applicable certifications and facilities as may be required to ensure all equipment covered by this pending Agreement shall be fabricated and supplied to meet all statutory requirements, codes of practice and applicable specifications.
- The intention is to have this scope of work cover the requirements of the Hebron Project. For clarity, the scope of work includes not only the foregoing, but may include at EMCP's discretion, future work related to minor changes to the scope of work described herein, in which EMCP may engage onshore or offshore Newfoundland and Labrador, for oil and gas facilities as well as exploration or subsea related activities.
- While not planned, it should be noted that the resulting RFP and Agreement may require inclusion of and/or extension to other operators in the area, project co-venturers, suppliers and/or affiliated companies.
- EMCP supports providing opportunities to Canadian, and, in particular, Newfoundland and Labrador companies and individuals, on a commercially competitive basis. Suppliers expressing interest in providing services or materials, if they are selected to bid, will be required to complete a Canada-Newfoundland and Labrador Benefits Questionnaire at the bid stage.
- The participation of members of designated groups (women; Indigenous Peoples; persons with disabilities; 2SLGBTQI+; and members of visible minorities) and corporations or cooperatives owned by them, in the supply of goods and services is encouraged. There are currently national certifying organizations that cover certification for businesses owned by these designated groups. The Projects will continue to look for organizations that can provide certification support to businesses owned by persons with disabilities.

Vendor Registration

The Hebron Project has a vendor database that is used to identify possible suppliers and contractors to participate in the project. Suppliers and contractors are encouraged to register. For instruction on registering click [here](#).

ExxonMobil Canada Properties by its managing partner ExxonMobil Canada Ltd., operator of the Hebron Project, sees value in expanding use of the database to the Hibernia and Hibernia Southern Extension projects, exploration, subsea activities and project co-venturers should they request information. The increased visibility to across projects and other noted industry participants may be of value to your organization as it has the potential to increase future procurement opportunities.

DISCLAIMER: By registering your company in the vendor database, you are consenting to making your information available to EMCP noted above.

NOTE:

Registration in the database does not imply that a supplier is approved as a qualified supplier, nor does it indicate that a vendor is included on any Non-Binding Request for Proposal (NRFP) or bid list for the supply of goods or services for which it has registered.

Scope of Work Overview:

The scope of work/supply includes, but is not limited to:

- Provision of hydraulic dual redundant crane hoist system on the Hebron platform
- Installation and commissioning support of the crane hoist system as required
- Maintenance support of crane as required after installation

Additionally, the selected supplier will be required to meet all technical and Safety, Security, Health, and Environmental (SSHE) specifications and safe work practices of EMCP and their affiliates as appropriate.

Minimum Technical Requirements

The following minimum technical requirements are required for pre-qualification:

1. Vendors must provide proof of:

- Working directly with major oil and gas operators to develop high risk application dual redundant crane designs.
- Proven track record for previously designed systems similar to the required loads
- Delivered more than 4 hydraulic dual redundant hoist system, designed/certified for a high risk application.

2. System to be designed to meet, as a minimum, in accordance with the following regulations:

- Newfoundland Offshore Petroleum Installations Regulations
- Canada Oil and Gas Drilling and Production Regulations
- CAPP - Canadian Association of Petroleum Producers
- ASME B30.2 Crane - Overhead and Gantry
- CSA B167 Overhead cranes
- NORSOK R-002 Lifting Equipment, Annex K
- EN 13135 Cranes - Safety - Design - Requirements for equipment
- ISO 13849-1 Safety of machinery – Safety-related part of control systems – Equivalent to SIL IEC 61508

3. Crane system design to include:

- Independent verification by certified 3rd party according to DNVGL-SE-0480 verification standard
- Crane winch/hoist safety related components system to have a minimum of a performance level PL(e) in accordance to ISO13849-1
- System must have a proven probability for a drop load of 2.8×10^{-8} or less via certified fault tree analysis
- Redundant main safety features and automatic load distribution
- Interlocked and synchronized winches (automatic load distribution)
- Independent systems for emergency operation
- Redundant suspension system
- Redundant frame design
- Redundant winch arrangement - two winches, each with full SWL capacity
- Double redundant wires, two wires on each winch, with full SWL capacity, to attach to lifting cap
- Redundant load monitoring and limitation, electrical and hydraulic
- Redundant PLC and electrical components, safety controller, safety related parts – performance level PL(e) redundant operation
- Normal operation and emergency operation
- Have the capability to be designed to interface with existing runway beams/gantries on the platform, including where applicable the drive racks welded to underside of runway beams.
- Load / lift capabilities (two separate systems):
 - SWL of up to 50 MT static lift with a lift height of 10m
 - SWL of up to 25 MT static lift with a lift height of 22m

4. Control panel / system, to include but not limited to.

- Manual control valves, in event of electrical failure of control panel
- Capable of incorporating functionality of various operation modes and speeds
- Including load based balancing system to ensure even lift of the load
- Remote control capability via handheld wireless remote control
- Handheld wireless remote controls capable of controlling the system with LCD display with loading and position readout

5. Safety Features

- E-Stops to allow crew to shut down the crane in the event of an emergency:
 - On control panel
 - On handheld wireless remote control
- Override: upper and lower limitations
- Incorporate a lower limitation system to stop/prevent the hoist from paying out
- Audible alarm and flashing lights when the crane moves/in operations
- Emergency lowering capability to safely lower the load to the deck in the event of a power loss and / or main hydraulic supply pressure
- Secondary retention for all fixtures, fittings, fasteners, accessories, etc. to reduce the potential for any dropped objects
- Elimination of all potential single point of failures from system

6. Crane will use available existing platform utilities:

- Electrical power: 600 V, 60 Hz, 3 Ph (earthed neutral)
- Electrical power: 120 V, 60 Hz, single Ph (earthed neutral)
- Compressed air: 0.75 – 0.85 MPag (109 – 123 psig) (Dew Point -40 °C (F))
- Hydraulic: 20.7 MPag (3,000 psig), consideration to pressure drop must be considered.

7. Crane to be designed according to Hebron Environmental Conditions

- Ambient temperature range -17.7 to 24.5 degrees C
- Snow and ice loading conditions
- Earthquake accelerations (0.2g)
- Vibrational requirement (tolerate vibrations inherent on the platform; frequency range: 5-20 Hz; vibration velocity amplitude: 20mm/sec)

8. CSA electrical components for Class 1 Zone 2; explosion proof enclosures and junction boxes

9. Provide analysis outlining parameters for vessel transfer and vessel offload and backload of cranes.

10. Crane to come with vessel shipping frames

Evaluation

The data submitted in response to the aforementioned questionnaires will be used to evaluate your company's ability (and those of your preferred sub-contractors / suppliers where applicable) to perform these services or provide these materials.

It will focus primarily on:

- Past safety performance
- Applicable experiences
- Project execution skills
- Project management skills & integration skills
- Available technologies with proven performance
- Current capability
- Personnel qualifications
- Financial capacity

This data will be evaluated and used to develop a final list of suppliers who will be asked to submit formal competitive bids. We reserve the right to make the final determination of which suppliers will receive the Non-Binding Request for Proposals (NRFP) or Invitation to Tender (ITT) and which suppliers will be awarded the final agreement.

This Expression of Interest (including pre-qualification) is not a pre-qualification of suppliers for other EMCP work, but is limited to the scope aforementioned. In addition, participation in this Expression of Interest (including pre-qualification), including any statements whether oral or written between EMCP and your company, shall not create or be deemed to create any binding legal relationship or contract, or be construed to do so between EMCP and your company. All costs associated with the preparation of your response to this expression of interest shall be at your expense.

This Expression of Interest (including pre-qualification) may or may not result in the issuance of an RFP/ITT and may or may not result in the award of an agreement. If you respond to this Expression of Interest (including pre-qualification) and your company is selected to be on the bidders' list, your company name, your designated company representative's name and business contact information may be posted on public websites. Similarly, if you are selected for award, the same information may also be posted, indicating that the work has been awarded to your company.

Submission Requirements

Supplier submissions in response to this Expression of Interest (including pre-qualification) **must** include the afore-mentioned reference number, as well as the following information:

1. Completed EOI Submission Form
2. Completed SSHE pre-qualification questionnaire.
3. Completed QA/QC pre-qualification questionnaire.
4. Information demonstrating qualification for the Scope of Work detailed above.
5. Information demonstrating vendor can meet minimum technical requirements detailed above
6. Description of your experience operating under and familiarity with, the benefits provisions of the Canada-Newfoundland and Labrador Atlantic Accord Implementation Act and your experience with any similar regimes in other parts of Canada or internationally. At the NRFP/ITT stage, bidders will be required to indicate how they comply with the above.

Submitted information is to be provided in separate PDF (or native file) submissions and not submitted as one combined file. Please be aware that Company is limited to a 10MB file size for receiving e-mail. Should the file size exceed 10MB, please contact the Contracts Manager identified below.

Responses must be submitted electronically by the closing date to the e-mail address noted below:

Attention: Leslie Moran
leslie.moran@esso.ca

Finally, potential suppliers, if they have not already done so, should register with BIDS using the following contact information:

Phone: 1-800-270-4611
E-mail: jayde.mcconchie@bids.ca
<https://bidsalert.com/canada/home>

EOI #075300 Submission Form

Full legal company name:	
Mailing address and physical address (if different):	
Contact name:	
Position:	
Email:	
Phone number:	

Diverse Ownership (Completion of this section is voluntary)

A Diverse supplier is a business that is at least 51% owned and controlled by a member(s) of one or more of the designated groups identified below. Please indicate which of the following designated group(s) are applicable to your business:

- Women Indigenous Peoples Visible Minorities Persons with disabilities
 2SLGBTQI+ N/A

If you indicated that your business is owned by a member of a designated group, are you currently certified as a diverse-owned business? Yes No

Through which certifying organization is your business certified?

If you are a NL registered business and are not currently certified, would you be interested in learning more about certification? Yes No

Acknowledgement

By signing herein, I acknowledge that the responsible management personnel have read, understand and will support requirements to comply with the following where applicable

- i. Section 45 of the Canada-Newfoundland and Labrador Atlantic Accord Implementation Act
- ii. The Hebron Benefits Agreement and Hebron Benefits Plan

Print Name: _____

Signature: _____

Date: _____